



markem·imaje

a **DOVER** company



CO₂ laser coder **SmartLase® C350HD+**



Wide web stick pack coding right on the mark.

The **SmartLase® C350HD+** is designed specifically for manufacturers of single serving, mix and go stick packs. This reliable, cost-effective and energy efficient solution for wide web coding and scoring delivers the performance you expect from Markem-Imaje, easily achieving a print rate of up to 60 strokes/minute even in dusty environments.

Your benefits

- Print High Definition (HD) codes on wider print area. Use two 30-watt lasers to print 670 mm wide web or three to print 1005 mm wide web. Single point of control (2 or more lasers can be controlled via **CoLOS®** or dedicated controller) for multiple head configurations.
- Designed for OEM integration. Qualified on multi-lane sticks packaging machines (Mespac, Toyo, Schmucker). Advanced head mount and extraction kits available.
- Flexibility to put the code where you need it. With 0° or 90° scan head orientation options available you can put your text anywhere, in any orientation unlike traversing solutions.

Product features

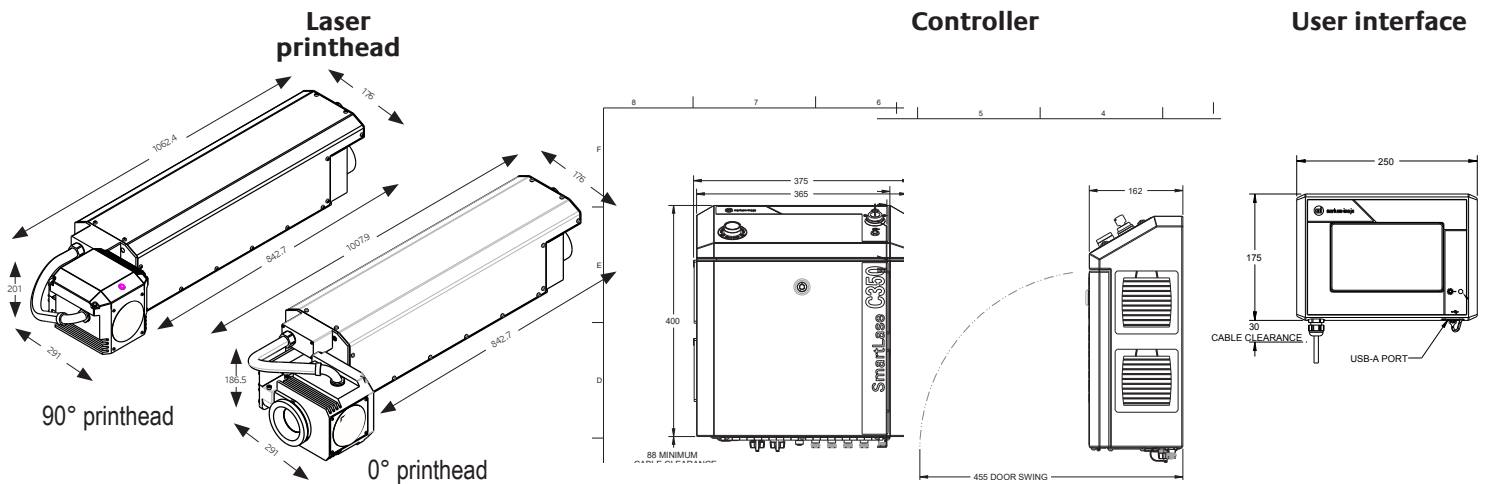
High quality coding

- Clean and safe solutions
Dedicated fume extraction system for a cleaner, healthier, safer, odorless working environment.
- High quality codes 30% faster
Patented **SmartLase®** Code Technology with **Intelli'Arc®** scribing, codes. 30% faster than conventional vector lasers.
- Reduce your film inventory with late stage customization.
Last minute customization possible (weight, promotion, etc.) helping to reduce foil inventory.

Lower total cost of ownership (TCO)

- Expedite adjustments and cut changeover times and waste.
SmartLase® comes standard with built-in aiming diode making it one of the most user-friendly lasers in its class.
- Do more with less. Coding and scoring is possible with our laser and could replace costly mechanical knife and blade solutions.
- Industry leading reliability.
99.9 % uptime with unique **Intelli'Cool®** system prevents overheating at high duty cycles, minimizing line stoppages and downtime, and provides an industry leading MTBF of 60,000 hours.

SmartLase® C350HD Specifications



Print features

2 laser solution: print up to 10 lanes at 60 strokes/min (600 ppm)*

3 laser solution: print up to 15 lanes at 60 strokes/min (720 ppm)*

Available in 10.2 µm and 10.6 µm wavelengths

Easy configuration for 0° or 90° scan head orientation

Large marking fields to minimize the number of printheads per line:

- One machine covers a print area width of 335 mm
- Two machines covers a print area width of 670 mm
- Three machines covers a print area width of 1005 mm

FD370 lens optimized for stick pack applications with print area 335 x 188 mm

Number of text lines: limited only by character height and allowable print area

Character height: from 1 to 335 mm

Choice of characters: Chinese, Latin and Unicode fonts

Wide selection of languages: Arabic, Bosnian, Brazilian Portuguese, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish

Operations

Safety compliance standard with 2006/42/CE and ISO 13849:2008 Category 3; PLd (Performance Level D, UL listed)

Possibility of remote data management

Quick and easy head swap with single connector

Operating temperature range: 5 to 40 °C (41 to 104 °F)

7" WYSIWYG color touch screen, QWERTY or AZERTY virtual keyboard, navigation via icons including on-line help file

Message storage capacity of 500 jobs

Upload and download of messages via USB flash drive

Quick connect/disconnect of laser head and accessories (photocell, encoder, alarm)

Standard I/O: Ethernet interface, serial, USB, encoder, sensor, extractor, controls, alarms, remote interlocks (dual channels)

Software

Web user interface provided as standard.

Included, free of charge, **CoLOS®** Message Design for design of simple messages; compatible with **CoLOS®** Line and **CoLOS®** Factory.

Other characteristics

3 separate modules: controller, laser head and optional user interface

Controller weight: 10.2 kg

User interface weight: 2.1 kg

Laser printhead weight: 18.5 kg

Dust/humidity protection: IP55 or IP65 laser head, IP54 controller and IP54 user interface

Visible aiming diode is standard on all lasers

Electrical power supply: 100-240 V with automatic switching - Frequency: 50/60 Hz - C350 Power consumption 7 A; 700 VA

Optional accessories

Remote user interface

IP65 laser head (no plant air using FS400 cooler.)
Optional IP55 laser head (no plant air using 2 fans)

Optional 90° printhead cable adaptor

Laser head to controller umbilical cable: 6m standard; 3m and 9m options

Industrial interface option board: RS-232/422 connectivity, 20 configurable operator I/O (12 inputs / 8 outputs), 2 voltage free relays, USB (for optional scanners)

Extraction solutions available: ES500+ (<600 ppm) for single head application and ES1000+ for more heads (< 1200 ppm)

Stand (controller, laser head and user interface), guarding tunnel, photocell, encoder, alarm beacon

Advanced head mount and extraction kits available for stick packs machines.

* Application dependent; Size and complexity of the code, scoring, and substrate type.

